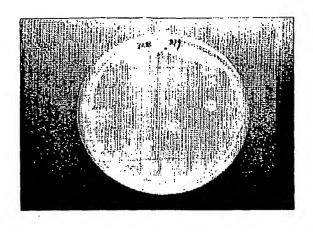
PCT/US2003/022165

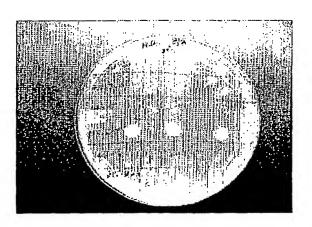
1 / 5

Figure 1

A



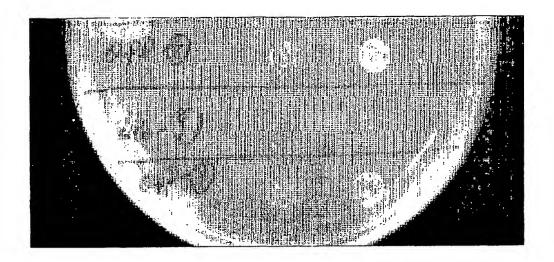
B.



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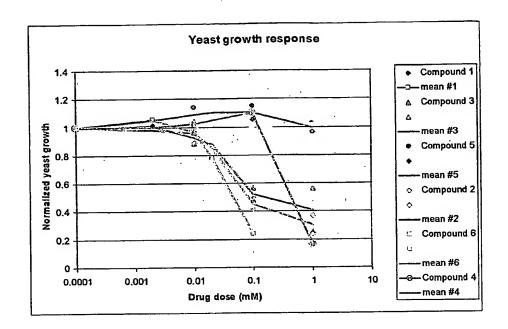
Figure 2



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Figure 3



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Figure 4

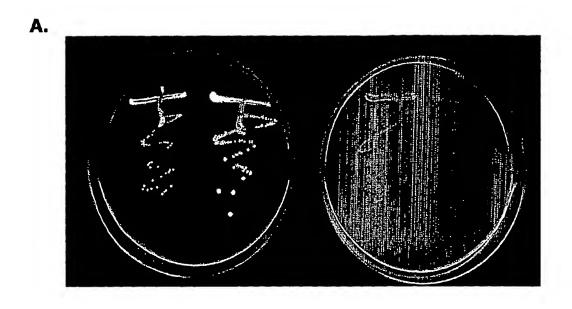
Alignment of Voltage-Gated Potassium Channels Relevant Regions

hKvl.1	PYFITLGTEIAEQEGNQKGEQATSLAILRVIRLVRVFRIFKLSRHSKG
mKv1.2	PYFITLGTELAEKPEDAQQGQQAMSLAILRVIRLVRVFRIFKLSRHSKG
Kv1.4	PYFITLGTDLAQQQGGGNGQQQQAMSFAILRIIRLVRVFRIFKLSRHSKG
Kv1.3	PYFITLGTELAERQGNGQQAMSLAILRVIRLVRVFRIFKLSRHSKG
hKv1.5	PYFITLGTELAEQQPGGGGGGQNGQQAMSLAILRVIRLVRVFRIFKLSRHSKG
ShakerB	PYFITLATVVAEEEDTLNLPKAPVSPQDKSSNQAMSLAILRVIRLVRVFRIFKLSRHSKG
rKv3.1	PFYLEVGLSGLSSKAAKDVLGFLRVVRFVRILRIFKLTRHFVG
rKv2.1	PYYVTIFLTESNKSVLQFQNVRRVVQIFRIMRILRILKLARHSTG
hKv4.2	PYYIGLVMTDNEDVSGAFVTLRVFRVFRIFKFSRHSQG
	•
hKv1.1	LQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEAEEAESHFSSIPDA
mKv1.2	LQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEADERDSQFPSIPDA
Kv1.4	LQILGHTLRASMRELGLLIFFLFIGVILFSSAVYFAEADEPTTHFQSIPDA
Kv1.3	LQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEADDPTSGFSSIPDA
hKv1.5	LQILGKTLQASMRELGLLIFFLFIGVILFSSAVYFAEADNQGTHFSSIPDA
ShakerB	LQILGRTLKASMRELGLLIFFLFIGVVLFSSAVYFAEAGSENSFFKSIPDA
rKv3.1	LRVLGHTLRASTNEFLLLIIFLALGVLIFATMIYYAERIGAQPNDPSASEHTHFKNIPIG
rKv2.1	LQSLGFTLRRSYNELGLLILFLAMGIMIFSSLVFFAEKDEDDTKFKSIPAS
hKv4.2	LRILGYTLKSCASELGFLLFSLTMAIIIFATVMFYAEKGSSASKFTSIPAA
111104.2	
hKv1.1	FWWAVVSMTTVGYGDMYPVTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRETEGE
mKv1.2	FWWAVVSMTTVGYGDMVPTTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRETEGE
Kv1.4	FWWAVVTMTTVGYGDMKPITVGGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRETENE
Kv1.4	FWWAVVTMTTVGYGDMHPVTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRETEGE
hKv1.5	FWWAVVTMTTVGYGDMRPITVGGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRETDHE
	FWWAVVTMTTVGYGDMTPVGVWGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRETDQE
ShakerB	FWWAVVIMITUGIGDMIFVGVWGKIVGSLCALAGVLTIAMPVPVIVNNFGMYYSLAMAKQ
rKv3.1	FWWAYVIMITEGIGDMIPQIWSGMEVGALCALAGVINIAMPIPIIVNNFSEFYKEQKRQE
rKv2.1	FWYTIVTMTTLGYGDMVPKTIAGKIFGSICSLSGVLVIALPVPVIVSNFSRIYHQNQRAD
hKv4.2	FMALIALMILIPGIGNMARVITWOVIE GOICOPOGATATATA ASMICKTINĀMĀKAD

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Figure 5



B.